

ZERHOV, N.G.; SAMOBUKOVA, T.A.

Clinical aspects, diagnosis and treatment of angiocholangitis in  
children. Pediatr. no. 8:12-18. '62. (MIRA. 15:10)

1. Iz Chetvertogo glavnogo upravleniya pri Ministerstve  
zdravookhraneniya SSSR.

(GALL BLADDER--DISEASES)  
(BILE DUCTS--DISEASES)

SOV/137-58-9-19610

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 211 (USSR)

AUTHORS: Azarov, K.P., Zerin, V.G.

TITLE: On Titanium Undercoat Enamels for Steel (O titanovykh grunto-vykh emalyakh dlya stali)

PERIODICAL: Tr. Novocherk. politekhn. in-ta, 1957, Nr 70/84, pp 159-165

ABSTRACT: Boronfree undercoat enamels (E) with various contents of Ti dioxide were tested to establish its effect on the fusibility of E and the occurrence of boiling and burns in the coatings. It is established that boiling and burns occur in the temperature range corresponding to the slowing down of the softening of E. Ti dioxide increases the fusibility of E Nr 35. The addition of 10% of Ti dioxide, which decreases the formation of boiling and burns of the boronfree base coating is the most effective.

N.L.

1. Enamel coatings--Materials    2. Titanium--Applications    3. Steel  
--Coatings

Card 1/1

H U N G .

b.5-332

Zerinyáry, Sándor. A világító éjszakai felhők eredetükre [Noctilucent clouds and their origin]. Budapest, Széchenyi 169-178, May/June 1954. 8 figs., 2 tables. Russian and French summaries p. 169. MH-BP. Recent theories concerning the origin of noctilucent clouds are reviewed. Discussed in particular are the theories of VFG (2D) which are derived from solar coruscular phenomena.

ZERIN, V. G.

15(2)  
 AUTHOR: Vargin, V.V.  
 TITLE: Conference on Glass and Metal Enameling  
 (nevichaniye i malivaniye metallov)  
 PERIODICAL: Stal' i keramika, 1958, Nr 12, pp 47-48 (USSR)

SOV/72-58-12-22/23

Abstracts:

The organizers of the conference were Leningradskoye oblastnoye nauchno-tekhnicheskoye obshchestvo prirodoznanii i stroitel'stva i Industry of Building Materials Scientific and Technical Society of the Council of National Economy. Leningradskiy gosudarstvennyi nauchno-issledovatel'skiy in-t (Leningrad Technical Institute) and Leningradskiy tekhnologicheskiy in-t Lengoruba (LTI). The program of the conference included the most important problems of enamel synthesis, enameling of steel products and industrial enamels. About 150 experts took part in the conference representatives from works in the USSR, Urals, Novosibirsk, Ural-Obis, Kuzbass, Berdiansk, as well as functionaries of the universities, of the scientific research and design institutes in Leningrad, Novosibirsk, Kuzbass, Dnepropetrovsk, Sverdlovsk, Kiev, Kortikov, Moscow, Irkutsk, etc., director of the LVI IZM and Lantovets, and others. More than 40 reports of the LVI IZM and Lantovets, and others, IrtyshPav, director of the LVI IZM and Lantovets, and others, speech stressed the great economic importance of the problems of enamel steel products and enameling.

Card 1/6

Y.I. Litvinova (LVI IZM Lantovets) reported on the influence of metal salts by on the formation of "ribbons" in enameling. A.I. Zelenin, architect metal aluminite at SSSR (Institute of Silicate Chemistry of the USSR), spoke on the present state of the problem of calculating the properties of glass and enamel according to their composition.

M.V. Serdyukov (LVI IZM Lantovets) gave a survey of foreign literature on enamel and steel enameling.

M.I. Lifchits, Fauchmo-Isoldeval, akad. inzhin. santonov (Scientific Research Institute of Sanitary Engineering) reported on the enameling of products in the electric field of corona discharge. Card 2/6

I.O. Petrukhina, Leningradskiy nauchno-issledovatel'skiy institut chernykh i tsentral'nykh metallovedenii (LNIChT) reported on new types of enamel steel products made in this factory. Ye.P. Kostin, Uralskiy politekhnicheskii institut (Uralskiy Politekhnicheskii institut) reported on the character of interaction between steel and solid enamel.

B.S. Sal'mov, Uralskiy nauchno-issledovatel'skiy institut chernykh i tsentral'nykh metallovedenii (Uralskiy Politekhnicheskii institut) reported on the influence of the condition of the steel surface on the formation of the enamel coat.

A.I. Boklevskaya, Institut of Silicate Chemistry of the AS USSR,

spoke on the method of obtaining thin silicate coats of metallic salts.

T.S. Podkletnov spoke on a new enameling method with heating of the products by high-frequency currents.

P.A. Medvedtsev, Leningradskiy nauchno-issledovatel'skiy metallurgicheskii institut (LNIChT) gave information on new enamels used by the factory.

T.I. Polyusash, Novosibirskiy metalurgicheskiy avto (Novosibirskiy Metal' - avto Form) reported on the dependence of the adhesion and the enamel deliquescence on the correlation of boric and carbonic acids.

Card 3/6

SOV/2-56-22-22/2

## Conference on Enamels and Metal Finishing

P.G. Pankrat, Lvivs'kyi Gidrosvitnennyi universite (Lvivs'kyi State University) reported on the investigation of fired enamel for coating cast iron.

V.I. Lekachin, Scientific Research Institute of Sanitary Engineering, spoke on the influence of chemical composition on enamel particles of easily fusible powder enamels.

By the LVF, Izmail, Izmailov gave the following reports were given:

L.I. Ostrorova on powderless steel and aluminum enamels.

M.V. Serebrjakova on non-aluminous allotropic enamels for aluminum.

G.A. Kuznetsova on slightly colored antimony enamels.

N.V. Klymenko on the investigation of a systematic series of oxides for stabilizing blue and brown pigments.

The Kirovobrorsk Polytechnic Institute gave the following report:

K.P. Alakov on the influence of enamel thickness and on the influence of alumina oxide on the physical-chemical properties of the price coats.

V.G. Serbin on the performance of the gas phases in the burning process of the pyroprocess.

Ief.J. Chabatova on phosphate enamels.

Ief.J. Podorets on powderless coats.

Collaborators of the Dnepropetrovsk Classical-Technological Institute reported:

G.I. Belyayev on the acid content and basicity of enamels, and on the influence of the composition on some properties of prime enamels.

I.V. Barinov on the deposition of enamel by anisotropy.

Chief Engineer, Chelyabinsk Metallurgical Institute (Chelyabinsk) and S.I. Polysal'sk (MILKUDUSS) on the experience of manufacturing enamelled chemical apparatus of steel.

A.M. Samarskaya spoke on the causes of blistering of prime enamels at the predominantly "activity" saved (Zaporizhzh'e "Metimyr" Works) and the methods of preventing this fault.

V.I. Zaytsev, Lugansk Works Izmail Arts, reported on the successful application of vibration grinding for crushing sand and non-hazardous enamels, as well as on the experiment of using white titanium enamels.

V.G. Zaytsev reported on the improvement in the burning technology of enamel coats in connection with the changeover of furnaces to gas, as well as on proposals of muffle-less burning.

V.I. Oberin, reported on the work of the design office of the enamel manufacture at the Lvivs'kyi Metallurgical Works.

D.I. Tegorev, representative of the State Office for Planned Economy on the Blagovod' Production volume for the next year, as well as on the standard specification of enamel consumption. Provided.

The members of the conference passed resolutions for obtaining an improvement in the quality of enamelled products, as well as for increasing their production and creating a new technology and new production methods.

Card 4/6

S/081/60/000/016/009/012  
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 16, p. 371, # 66328

AUTHORS: Azarov, K.P., Zerin, V.G.

TITLE: Determining the Amount of Gases in Enamels <sup>15</sup>

PERIODICAL: Tr. Novocherk. politekhn. in-ta, 1958, No. 47/61, pp. 229-231

TEXT: The determination of the amount of gases liberating during enameling and heating up to 900°C, showed that the enamels are not the sources of gases causing bubbling and burnings of boron-free priming coatings.

G. Gerashchenko

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

AZAROV, K.P., dotsent, kand.tekhn.nauk; ZERIN, V.G., assistent

Determination of the amount of gases contained in enamel.  
Trudy NPI 47:229-231 '58. (MIRA 13:5)

1. Novocherkasskiy ordena Trudovogo Kraсnogo Znameni  
politekhnicheskiy institut imeni Sergo Ordzhonikidze; kafedra  
tekhnologii keramiki, stekla i emalej.  
(Enamel and enameling) (Gases)

SOV/137-58-8-17503

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 185 (USSR)

AUTHORS: Zerin, V.G., Azarov, K.P.

TITLE: Oxidation of Steel During the Baking of Boric and Boronfree Undercoatings (Okisleniye stali pri obzhige bornykh i bezboronykh gruntovykh pokrytiy)

PERIODICAL: Tr. Novocherk. politekhn. in-ta, 1957, Vol 63/77, pp 59-70

ABSTRACT: It is demonstrated that preliminary treatment (fire and mechanical degreasing, etching) has an effect on the oxidation of steel prior to enameling. A variation of the degree of oxidizability of steel within the 400-1200 mg/dm<sup>2</sup> limits has no notable effect on the quality of boronfree undercoating. In the baking in air, the oxidation of steel depends on the conditions of the baking and the type of coating. By contrast, the oxidation of steel in an inert atmosphere is insignificant, which points to a low oxidizing action of enamel melts, including the boronfree ones. The formation of burned spots is related to the duration of the stay of the undercoatings in a temperature range corresponding to their boiling. The series of stages in the formation of undercoats during heating is established. I.e. 1. Steel--Oxidation  
2. Steel--Coatings 3. Enamel coatings--Applications

Card 1/1

ZERINVARY, SZ.

"Atmosphere of Planets", P. 44, (IDOJARAS, Vol. 58, No. 1, Jan./Feb.  
1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,  
Dec. 1954, Uncl.

ZERINVARY, SZ.

"Discovery of Mercury's Atmosphere." p. 753 (TERMESZET ES TARSADALOM.  
Vol. 113, No. 12, Dec. 1954; Budapest, Hungary.)

So: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4,  
April 1955, Uncl..

ZERINVARY, SZ.

How did asteroids come into existence? p. 688. Vol 114, no. 11, Nov. 1955. TERM  
ESZET ES TARSADALOM. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

ZERINVARY, SZ.

"General meeting of the Hungarian Academy of Sciences", P. 179  
(Idojaras, Vol. 58, No. 3, May/ June 1954, Budapest, Hungary.)

SO: Monthly list of East European Accessions (EEAL), LC, Vol.4,  
No. 3, March 1955, UNCL.

ZERINVARY, Sz.

"Luminous Silver Clouds and Their Origin", P. 169, (IDCJARAS, Vol. 58, No. 3,  
May/June 1954, Budapest, Hungary)

SC: Monthly List of East European Accessions (EEAL), LC, Vol. 4, No. 3,  
March 1955, Unci.

ZERJAVIC, V.

"Organization of the commercial market for petroleum products in our country." p. 63.  
(NAFTA, Vol. 4, no. 2, Feb. 1953, Zagreb.)

SO: Monthly List of East European Accessions, Vol. 2, #3, Library of Congress  
August, 1953, Uncl.

L 08952-67 EWT(d)/EWT(m)/EWP(w)/EMP(f) IJP(c) WW/EM  
ACC NR: AP6029980 SOURCE CODE: UR/0413/66/000/015/0192/0193

INVENTOR: Zhdanov, K. I.; Zerkalenkov, A. I.

48

ORG: none

TITLE: Stand for the aerodynamic balancing of aircraft propeller blades. Class 42,  
No. 183984

24

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 192-193

TOPIC TAGS: propeller blade, aircraft propeller, aircraft maintenance, test stand

ABSTRACT: An Author Certificate has been issued for a stand for the aerodynamic balancing of aircraft propeller blades, which contains a layout block mounted on

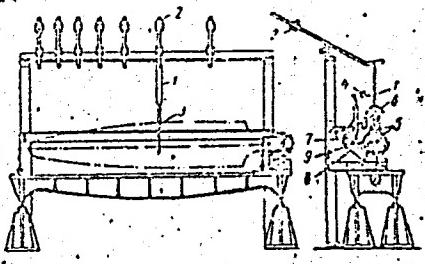


Fig. 1. Aircraft propeller-blade balancing stand

- 1 - Lock;
- 2 - lever with counterweight;
- 3 - rotatable support;
- 4 - indicator;
- 5 - levers with holders;
- 6 - stirrups;
- 7 - flat holder;
- 8 - support-gib levers;
- 9 - lever lock.

UDC: 620,178.629.13.01/06

Card 1/2

L 08952-67

ACC NR: AP6029980

hoists, a head with a gripping device, pedestals with crossbars attached to the block, and counterweighted levers attached to the upper crossbar. To improve quality and efficiency, the stand is equipped with a mechanism consisting of blade-angle locks attached to the other end of the counterweighted levers, rotatable supports attached to the lower crossbar, and indicators, one end of which interacts with the locks. Orig. art. has: 1 figure. [KT]

SUB CODE: 01/ SUBM DATE: 10Dec63/

Card: 2/2 nat

ZERKALOV, V.I.

Characteristics of the internal structure of pyrite grains  
from Salair pyrite deposits. Zap. Vses. min. ob-va 93 no.3  
360-364 '64. (MIRA 18:3)

*Zorkik, Mladon*

YUGOSLAVIA / Chomical Technology, Chomical Products and Their  
Application. Dyeing and Chomical Treatment of  
Textilos.

H-34

Abs Jour : Ref Zhur - Khim., No 3, 1958, No 10,106

Author : Zorkik, Mladon

Inst : Not given

Title- : The Effect of Atmospheric Conditions upon the Résults of  
Measuromonts in the Quality Control of Toxtilos.

Orig Pub : Tokstil, 1956, 5, No 1, 7-11

Abstract : The effect of the temporature and humidity of the air upon  
the results of measuring the mechanical strength and other  
characteristics of textilos are considerod; graphs for  
correcting the results in accordance with the porcent  
humidity of the air are given.

Card 1/1

TARASOV, A. (Rostov-na-Donu); ZERKIN, D. (Rostov-na-Donu); ROMANOV, A.  
(Rostov-na-Donu)

On economic laws. Vop.ekon. no.6:139-143 Je '60.  
(MIREA 13:6)  
(Economics)

ZERKIN, L.T., inzh.; BATURIN, Yu.I., inzh.; SPERANSKIY, A.I., red.;  
KURILKO, T.P., tekhn. red.

[Inventions; the mining industry] Sbornik izobretenii; gorno-dobyvaiushchaya promyshlennost'. Moskva, TSentr.biuro tekhn. informatsii, 1961. 159 p. (MIRA 15:11)

1. Russia (1923- U.S.S.R.) Komitet po delam izobreteniy i otkrytiy.

(Mining engineering--Technological innovations)

27.0400

S/058/62/000/006/055/136  
A061/A101

AUTHOR: Zerkl, R. V.

TITLE: General characteristics of radiobiological effects

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 24, abstract 6D178  
(In collection: "Sovrem. probl. biofiziki. T. 2", Moscow, Izd-vo  
in. lit, 1961, 5 - 8)

TEXT: The mechanism of the action of high-energy radiation on biological substances is discussed and confronted with the action of chemical and physical agents and low-energy radiation. The radiation energy transfer to individual molecules of a substance of biological origin is not of a selective nature, and the respective events group into linear tracks. Attempts to explain the mechanism of the action of high-energy radiation on biological objects according to the theory of "direct" and "indirect" radiative action are discussed, as well as such related to the study of linear energy transfer as acting upon the dependence of the effect on the dose, to the effect of molecular oxygen on the sensitivity to radiation, and to the study of surviving power curves of different objects.  
[Abstracter's note: Complete translation] L. Serdyukova

Card 1/1

ZERKOVITZ, B.

"Answer to the Remarks on the Article 'Some Basic Problems of Designing Modern Autobuses", P. 184, (KOZLEKEDESTUDOMANYI SZEMLE, Vol. 4, No. 5, May 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

ZERKOVITZ, B.

"Some Fundamental Questions in the Planning of Modern Buses." p. 405,  
(KOZLEKEDESTUDOMANI SZEMLE, Vol. 3, no. 11/12, Nov./Dec. 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954/Unclassified

ZERKOVITZ, B.

H U N G .

01. The new model 65 and model 66 Ikarus buses —  
B. Zerkovitz (Magyar Technika — Vol. 9, 1961,  
No. 5—6, pp. 310—312, 6 figs.)

The production of two new rear-engined models has  
been started in Hungary. The Ikarus model 66,  
for city traffic, has a seating capacity of 100  
and a 6-cylinder, 125 HP engine. The engine  
of the model 65 interurban bus is identical with  
that of model 66. The underframe and body con-  
stitute an integral unit. The principal features are  
excellent driving properties, utmost passenger com-  
fort, a third hand-operated air brake, independent  
of the two conventional brakes, which ensures a  
deceleration of 2.2 miles<sup>-2</sup> and etc., also he used a  
an emergency brake.

ZERKOVITZ, Bela, fomernok

The new Ganz-MAVAG motor series with undivided combustion  
chamber. Jarmu.mezo.gep. 10 no.98341-349 S'63

1. Ganz-MAVAG.

ZERKOVITZ, Bela; PARKAI, Istvan

Remarks on the question of diesel traction. Jarmu mezo gep  
6 no.12:366-375 '59.

ZERKOWITZ A.  
(2092)

Szfov, Szent Istvan Kozkorhaz Idegosztalyarol. Kiserletes vizsgalatok glycerinaether koszitmenyekkel Experiments with glycerinether preparations Orvosi Hetilap 1948, 89/24 (380-382)

Myanesin -- a, B-dihydroxy-Y (methylphenoxy) propane --- paralyses the motor activity of the spinal cord. It has a greater effect upon the lumbar and sacral segments than upon the thoracic and cervical segments. The respiratory muscles are paralysed only by much greater doses than are the abdominal and foot muscles. It also blocks the action of the sensory synapses in the spinal cord and hence alleviates pains of spinal origin (pachymeningitis, multiple sclerosis, spastic conditions, tabes dorsalis). Pathological motor stimuli are depressed without influence on the voluntary movements. 10-20 ml. of a 10% solution intramuscularly produces no toxic signs (haemolysis, thrombosis).

Issekutz - Budapest

SO: Excerpta Medica, Vol. 11, No. 4, Sect. 11 - April 1949

ZERKOWITZ, A.

Prevention of headache following lumbar puncture. Orv. hetil.,  
91:27, 2 July 50. p. 648-9

1. Neurological Department (Head Physician--Dr. Tibor Lehoczky),  
Szent Istvan Metropolitan Hospital.

CINL 19, 5, Nov., 1950

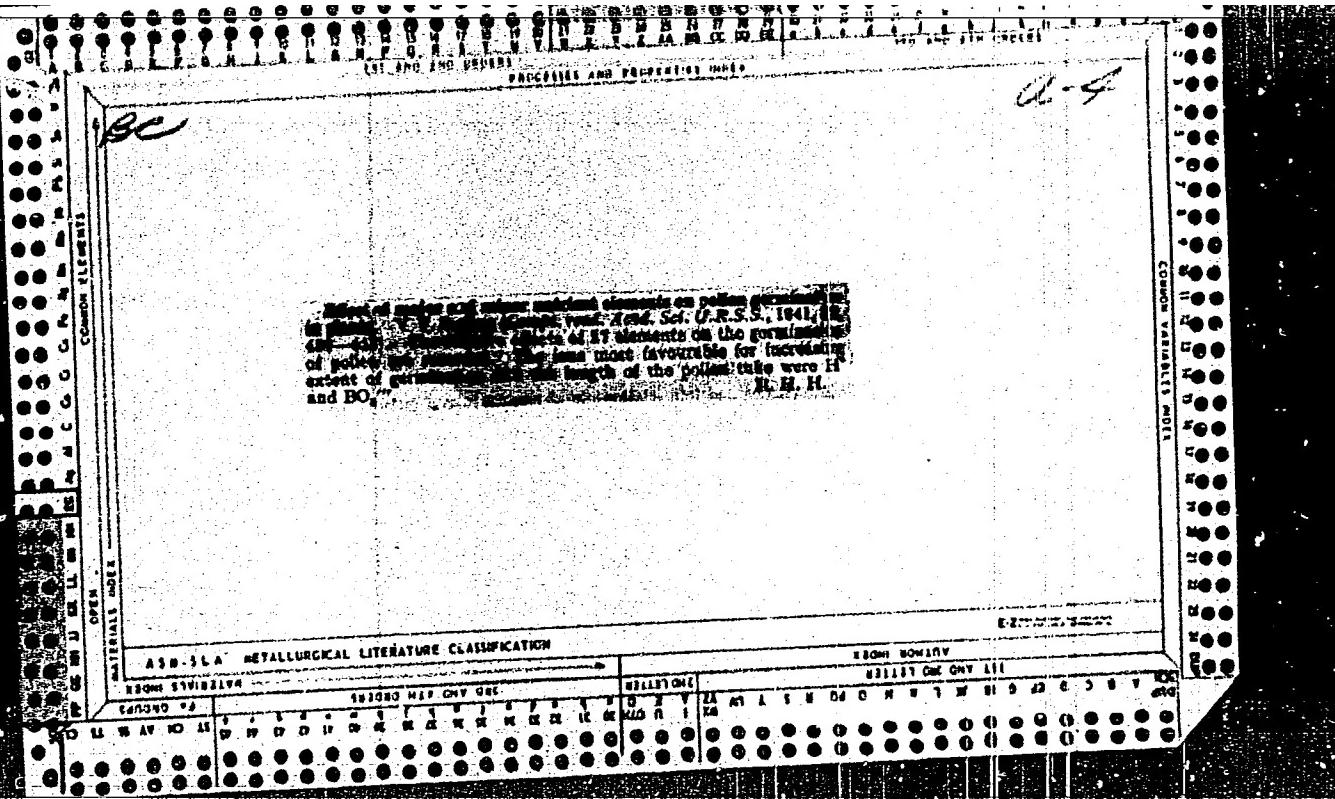
ZERKOWITZ, B.

New Applications of Light Metals in the [Hungarian] National Motor Industry. Béla Zerkowitz. Lamination (Budapest), 1950, 2, (7), 171-173. [In Hungarian]. The extensive use made of Al and Al alloys in the prodn. of Hungarian public-transport vehicles is described. - I. S. M.

*W. G. M.  
M.A.*

*22*

New Applications of Light Metals in the [Hungarian] National Motor Industry. [Eds.: Zarkowicz. (Aluminum (Budapest), 1950, 2, (7), 171-175).—{In Hungarian}. The extensive use made of Al and Al alloys in the produc. of Hungarian public-transport vehicles is described.—I. N. M.]



ZERLING, V. V.

"Influence of Major and Minor Nutrient Elements on Pollen Germination in  
Plants," Dok.AN, 32, No.6, 1941. c1941-.

ZERMAKOV, A.F.

AUTHOR: Vitin, G.V. and Zermakov, A.F.

133-5-20/27

TITLE: On the production of bent profiles. (O proizvodstve  
gnutykh profiley)

PERIODICAL: "Stal'" (Steel), No.5, pp. 458-463 (U.S.S.R.)

ABSTRACT: Economic advantages of the production of bent profiles (shapes) are discussed. It is pointed out that in the USSR this branch of the industry is little developed. The Iron and Steel Ministry was informed by Gipromez of the requirements of various industries which was estimated to amount to 800 000 tons in 1960. The technology of production of bent profiles is outlined. The diagram of a roller bending mill is shown in Fig. 1. Profiles, the production of which is planned in the sixth Five Year Plan, are shown in Figs. 2 and 3 and their dimensions in Table 1. Main characteristics of roller bending mills are given in Table 2 and their output in Table 3. Cost of construction of building special mills on the Magnitogorsk Metallurgical Combine (Magnitogorskiy Metallurgicheskiy Kombinat) (350 000 tons/year) 56 million Roubles and on the Karagandisk Works (200 000 tons/year) 34.8 million Roubles. It is considered that the production of 800 000 tons/year of bent profiles will give an economy in the consumption of metal

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On the production of bent profiles. (Cont.) 133-5-20/27  
of 200 000 tons/year and thus the cost of building special  
mills will be covered in 2.5 years. There are 3 tables  
and 3 figures.

ASSOCIATION: Gipromez

AVAILABLE:

Card 2/2

ZERMETSKIY, B.F., kand.geologo-mineralogicheskikh nauk

Giant nummulites of the Crimea. Priroda 49 no. 12:9 D '60.  
(MIRA 13:12)

1. Institut geologicheskikh nauk AN USSR, Kiyev.  
(Crimea--Nummulites)

KAPTARENKO-CHERNOUSOVA, Ol'ga Konstantinovna, prof., doktor geol.-min.nauk;  
GOLYAK, Lyudmila Markovna, inzh.; ZERNETSKIY, Boris Fedorovich,  
kand.geol.-miner.nauk; KRAIEVA, Yelizaveta Yakovlevna, kand.  
geol.-miner.nauk; LIPNIK, Yelena Semenovna, mladshiy nauchnyy  
sotrudnik; DIDKOVSKIY, V.Ya., starshiy nauchnyy sotrudnik, otv.red.;  
MEL'NIK, A.F., red.; MATVEYCHUK, A.A., tekhn.red.

[Atlas of characteristic foraminifers of the Jurassic, Cretaceous,  
and Paleogene in the platform part of the Ukraine] Atlas  
kharakternykh foraminifer iury, mela i paleogena platformennoi  
chasti Ukrayny. Kiev. Izd-vo Akad. nauk URSR, 1963. 200 p.  
(Akademiiia nauk URSR. Instytut geologichnykh nauk. Trudy. Seriia  
stratigrafii i paleontologii, no.45). (MIRA 16:9)  
(Ukraine—Foraminifera, Fossil)

DYADCHENKO, M.G. [Diadchenko, M.H.]; ZERNETSKIY, B.F. [Zernets'kyi, B.F.];  
TKACHENKO, T.A. [Tkachenko, T.O.]

Mineralogy of liman sands near Stanislav, Kherson Province. Dop.AN  
URSR no.9:1263-1266 '60. (MIRA 13:10)

1. Institut geologicheskikh nauk AN USSR. Predstavлено akademikom  
AN USSR N.P.Semenenko.  
(Kherson Province--Sand)

AYZENVERG, D.Ye. [Aizenverg, D.IE.]; BAR'NOVA, N.M.; VEKLICH, M.P.;  
GOIYAK, L.M. [Holiak, L.M.]; GORAK, S.V. [Horak, S.V.];  
DIDKOVSKIY, V.Ya. [Didkova's'kyi, V.IA.]; ZELINSKAYA, V.G.  
[Zelins'ka, V.O.]; ZERNETSKIY, B.F. [Zernets'kyi, B.F.];  
KAPTARENKO-CHERNOUSOVA, O.K.; KRAYEVA, Ye.Ya. [Kraieva, YE.IA.];  
KRASHENINNIKOVA, O.V.; KUTSIBA, A.M.; LAPCHIK, T.Yu.; MAKARENKO,  
D.Ye.; MOLYAVKO, G.I. [Moliavko, H.I.]; MULIKA, A.M.; PASTERNAK,  
S.I.; FERMYAKOV, V.V.; ROMODANOVA, A.P.; ROTMAN, R.N.; SLAVIN, V.I.;  
SOKOLOVSKIY, I.L.; SOROCHAN, O.A.; SYABRYAY, V.T.; TKACHENKO, T.O.;  
SHUL'GA, P.L. [Shul'ha, P.L.]; doktor geol.-mineral.nauk; YAMNICHENKO,  
I.M. [Yamnychenko, I.M.]; BONDARCHUK, V.G. [Bondarchuk, V.H.], akade-  
mik, otv.red.

[Atlas of paleogeographical maps of the Ukrainian and Moldavian  
S.S.R. with lithofacies elements. Scale 1:2,500,000] Atlas paleo-  
geografichnykh kart Ukrains'koi i Moldavs'koi RSR z elementami  
litofatsii. Masshtab 1:2,500,000. Sklaly D.IE. Aizenverg i dr.  
Za zahal'nym kerivnytstvom V.N.Bondarchuka. Kyiv, 1960. xvi p.,  
78 col.maps. (MIRA 13:12)

1. Akademiya nauk USSR, Kiyev. Institut geologicheskikh nauk.
  2. Institut geologicheskikh nauk AN USSR (for all, except Bondarchuk, Pasternak, Slavin). 3. Instytut geologii korysnykh kopalyn AN URSR (for Pasternak). 4. Moskovskiy gosudarstvennyy universitet im. Lomonosova (for Slavin).
- (Ukraine--Paleogeography--Maps) (Moldavia--Paleogeography--Maps)

ZERNETSKIY, B.F.; MAKARENKO, D.Ye.

Zone with *Variamussium fallax* Korob. in the Paleogene of the Crimean-Carpathian area. Dokl. AN SSSR 139 no.4:950-951 Ag '61. (MIRA 14:7)

1. Institut geologicheskikh nauk AN USSR. Predstavлено akademikom A.L. Yanshinyem.  
(Uzhok region--Paleontology, Stratigraphic)  
(Tarkhankut, Cape--Paleontology, Stratigraphic)

ZERNETSKIY, B.F. [Zernets'kyi, B.F.]

Find of Nummulites orbignyi (Galeotti) in the Volga-Don inter-fluve. Geol. zhur. 20 no. 5:93-96 '60. (MIRA 14:1)  
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ZERNETSKIY, B.F. [Zernets'kyi, B.F.]

Limestones and dolomites. [Pratsi] Inst. geol. nauk AN URSR,  
Ser. geol. rod. kor. kop. no.1:71-85 '63.

(MIRA 18:6)

ZERNETSKIY, B.F. [Zernets'kiy, B.F.]

New finds of the genus Pseudosiderolites in the southern U.S.S.R.  
and their stratigraphic significance. Dop. AN URSR no.10:1363-  
1367 '61. (MIRA 14:11)

1. Institut geologicheskikh nauk AN USSR. Predstavлено akademikom  
AN USSR V.G. Bondarchukom [Bondarchuk, V.H.].  
(Foraminifera, Fossil)  
(Geology, Stratigraphic)

ZERNETSKIY, B.F.

Recent data on the lower Eocene sediments of the northern slope of  
the Black Sea Depression. Dop. AN URSR no. 2:222-224 '61.

(MIRA 14:2)

1. Institut geologicheskikh nauk AN USSR. Predstavлено akademikom  
AN USSR V.G.Bondarchukom.  
(Black Sea region—Geology, Stratigraphic)

ZERNETSKIY, B.F. [Zernets'kyi, B.F.]

New data on Upper Eocene sediments in the Sinyukha Basin, Genlzhur.  
18 no. 3:93-96 '58. (MLA 11:11)  
(Sinyukha Valley--Geology, Stratigraphic)

30(2)

SOV/21-59-4-18/27

AUTHOR: Zernetskiy, B.F.

TITLE: First Finds of Large Nummulites Distans Desh. in  
the Eocene Deposits of the Northern Black Sea Area

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 4,  
pp 420-423 (USSR)

ABSTRACT: The author presents a description of a large species  
Nummulites distans Desh. of the family of Nummulitidae  
Carpenter, which were found in kern samples of deep  
boring at Peresyp' (Odessa oblast, at the villages  
of Koblevo, Vladimirovka, Varvarovka (Nikolayev ob-  
last) and at Kakhovka (Kherson oblast). The spe-  
cies were found in limestone, sandy limestone and  
lime sandstone deposits, at depths from 485 to 593 m.  
The deep boring has produced a number of other spe-  
cies of Nummulites and molluscs, which confirms the

Card 1/2

SOV/21-59-4-18/27

First Finds of Large Nummulites Distans Desh. in the Eocene  
Deposits of the Northern Black Sea Area

Middle Eocene geological age of those deposits.  
There are 3 photos, 1 map and 3 references, 1 of  
which is Soviet, 1 French and 1 Hungarian.

ASSOCIATION: Institut geologicheskikh nauk AN UkrSSR (Institute  
of Geological Sciences of the AS UkrSSR)

PRESERVED: By V.G. Bondarchuk, Member of the AS UkrSSR

SUBMITTED: January 7, 1959

Card 2/2

AUTHOR: Zernetskiy, B.F., Candidate of Geological and Mineralogical Sciences 26-58-4-34/45

TITLE: A Puzzling Imprint (Zagadochnyy otpechatok)

PERIODICAL: Priroda, 1958, Nr 4, p 113 (USSR)

ABSTRACT: The author spent the summer of 1955 in the Crimea where he discovered in a ravine a fragment of platy sandstone which showed a puzzling imprint that looked like a bird's footprint (Figure 1). According to ornithologist M.A. Voinstvenskiy's opinion the bird must have been a corn-crake. As the imprint dates back to the Lower Cretaceous period, it is obvious that small birds of this kind existed at that time, a fact that so far had not been proved. There is 1 photo.

ASSOCIATION: Institut geologii Akademii nauk USSR (Kiyev)  
(Institute of Geology of the Ukr. SSR Academy of Sciences,  
Kiyev)

AVAILABLE: Library of Congress  
Card 1/1 1. Paleontology-USSR 2. Fossils-USSR 3. Geology-USSR

ZERNETSKIY, B.F. [Zernets'kiy, B.F.]

Recent data on the distribution of middle Eocene nummulites in the  
Black Sea Depression. Dop.AN URSR no.7:938-940 '61.

(MIRA 14:8)

1. Institut geologicheskikh nauk AN USSR. Predstavлено  
akademikom AN USSR V.G.Bondarchukom [Bondarchuk, V.H.].  
(Black Sea region--Nummulites)

ZERNETSKY, Boris Fedorovich [Zernets'kyi, B.F.]; DIDKOVSKIY, V.Ya.  
[Didkovs'kyi, V.IA.], kand.geol.-mineral.nauk, otv.red.;  
MEL'NIK, G.F. [Mel'nyk, H.F.], red.; LIBERMAN, T.R., tekhn.red.

[Nummulites and orbitoids of Paleogene sediments in the Black Sea  
Lowland] Numulity ta orbitoidy paleogenovych vidkladiv Prychor-  
nomors'koi zapadyny. Kyiv, Vyd-vo Akad.nauk URSR, 1962. 72 p.  
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nauk. Trudy, Seriia stratigrafii i paleontologii, no.42).

(MIRA 15:8)

(Black Sea Lowland--Foraminifera, Fossil)

SYABRYAY, V.T. [Siabriai, V.T.]; ZERNETSKIY, B.F. [Zernets'kyi, B.F.]

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21 no.3:113-115 '61. (MIRA 14:7)

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ZERNEYEV, S.M.

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JANECEK, Antonin, prof., MUDr., ZERNICEK, Dobroslav

Reaction of serum with the picric acid. I. Methods, and normal quantum in healthy people and animals. Veterinarni medicina  
7 no.2:117-124 '62.

1. Katedra lekarske chemie, fyziky a toxologie veterinarni  
fakulty, Vysoka skola zemedelska, Brno.

ZERNICEK, D.; LOJKASKOVA, B.

Qualitative changes in the serum albumin in liver and other diseases. Cas. lek. cesk. 104 no.6:25-38 12 F'65.

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SANTIBANEZ, G.; TARNECKI, R.; ZEMICKI, B.

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1. Z Zakladu Neurofizjologii Inst.Biol.Dosw. im. M.Henckiego  
Kierownik: prof.dr J.Konarski.  
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SANTIBANEZ, G.; TARNECKI, R.; ZERNICKI, B.; KONORSKI, J.

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(CEREBRAL CORTEX anat & histol)  
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Effect of bilateral extirpation of the gyrus compositus anterior  
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? Synthetic reactions of dimethylformamide. II. Reactions of ketals with dimethylformamide and phosgene. Zdeněk Arnold and Jiri Ženíšek (Cs), sknd. vzd. Prague. Chem. listy 57, 458-61 (1962); cf. C.A. 51, 13761c.—Reactions of ketals with  $\text{HCONMe}_2$  (I) and  $\text{COCl}_2$  (II) in molar ratio 1:5:2.5 gave various derivs. of  $\beta$ -dicarbonyl compds. II (12.37 g.) in  $(\text{CH}_2\text{Cl})_2$  (III) was dropped into an ice-cooled stirred soln. of 18.23 g. I in III over 30 min. (the total amt. of III being 160 ml.), to the stirred suspension added under ice-cooling 9.71 g.  $\text{PhCMe}(\text{OBt})_2$  during 5 min., the mixt. heated 3 hrs. at 40°, cooled, decompd. with 20.8 g. anhyd.  $\text{NaOAc}$  and 100 g. ice, the aq. layer extd. twice with 20 ml. III and the org. layer three times with 50 ml.  $\text{H}_2\text{O}$ , and the org. ext. distg. giving 6.8%  $\text{PhC}(\text{NM}_2)_2\text{CHCHO}$ , b.p. 55-70°. The aq. layer was treated with stirring with  $\text{K}_2\text{CO}_3$  extd. 5 times with 50 ml. 1:1  $\text{C}_2\text{H}_5\text{EtOH}$ , the volatile components distd. *in vacuo*, the residue shaken with 100 ml.  $\text{H}_2\text{O}$  and 8 30-ml. portions  $\text{C}_2\text{H}_5$ , and the benzene ext. evapd. giving 25.7%  $\text{PhC}(\text{NM}_2)_2\text{CHCHO}$ , b.p. 180°, m. 61° ( $\text{Et}_2\text{O}$ ). The aq. layer filtered with C and evapd. *in vacuo* gave a solid residue which was dissolved in 150 ml. III, the soln. filtered, evapd. to 50 ml., and treated with 100 ml.  $\text{Et}_2\text{O}$  to give 44.6% hygroscopic amorphous  $[\text{PhC}(\text{NM}_2)_2\text{CHCHO}] \cdot [\text{NM}_2\text{Cl}]$ , m. 205-7° (decompn.). *Picrate*, m. 89-90° (50%  $\text{Et}_2\text{O}$ ). Similar treatment of 10.42 g.  $\text{PhC}(\text{OBt})_2$  yielded 92.1%  $\text{PhC}(\text{OBt})_2\text{CMeCHO}$  (IV), b.p. 86-94°. Heating 1.43 g. IV with 20 ml. 4*N*  $\text{NHMe}_2$  in  $\text{C}_2\text{H}_5$  in a sealed tube 1.0 hrs., distg. the  $\text{C}_2\text{H}_5$ , washing the residual oil several times with petr. ether, extg. the petr. ether soln. with 7 20-ml. portions of  $\text{H}_2\text{O}$ , evapd. the aq. layer *in vacuo* to 30 ml., extg. the soln. with 3 20-ml. por-

tions of  $\text{C}_2\text{H}_5$ , and distg. the ext. gave 63.4%  $[\text{PhC}(\text{NM}_2)_2\text{CHCHO}] \cdot [\text{CMeCHO}]$ , b.p. 110-25°, m. 80-1° ( $\text{Et}_2\text{O}$ ). The formylation of  $[\text{iso-PrPhC}(\text{OBt})_2]$  (V) (b.p. 115°, n<sub>D</sub><sup>20</sup> 1.4313) in the described manner failed. Treating 60 g. finely Zn (activated with a grain of iodine) in 15 ml.  $\text{C}_2\text{H}_5$  in 3 min. with 22.71 g.  $\text{PhCOCMe}_2\text{Br}$  and 20 ml.  $\text{CH}_2\text{OBt}$  in 35 ml.  $\text{C}_2\text{H}_5$  on the steam bath, adding 60 g. Zn dust, heating the mixt. 3 hrs. on the steam-bath, decanting the mixt. to a new portion of Zn activated with iodine, refluxing the mixt. 4 hrs., adding 50 g. Zn dust, refluxing the mixt. 8 hrs., treating the cooled mixt. with 50 g. ice and 100 ml.  $\text{Et}_2\text{O}$ , adding 60 g.  $\text{AcOH}$ , sspg. the ether layer, washing it with  $\text{NaHCO}_3$  and  $\text{H}_2\text{O}$ , and distg. gave 15.9 g. crude and 14.7% pure  $\text{PhCOCMe}_2\text{CH}(\text{OBt})_2$  (Va), b.p. 148°, n<sub>D</sub><sup>20</sup> 1.4940. Adding 0.6 g. Va to 20 ml. stirred and cooled 80%  $\text{H}_2\text{SO}_4$  during 30 min., decompg. the mixt. with ice, and filtering off the cryst. product with suction gave 100%  $\text{PhC}(\text{CMe}_2\text{CHO})_2$ , m. 158-8.5° (75%  $\text{Et}_2\text{O}$ ), subliming at 140°/0.1 mm. Heating 3 g. V with a trace of *p*-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H with a free flame and distg. yielded  $\text{PhC}(\text{OBt})_2\text{CMeCHO}$ , b.p. 98-100°, n<sub>D</sub><sup>20</sup> 1.5169. Formylation of 6.61 g.  $\text{MeC}(\text{OBt})_2$  by heating the mixt. 3 hrs. at 40°, decompg. the mixt. with ice, treating the aq. layer with  $\text{KuCC}_2$ , extg. it with 4 50-ml. portions of 1:1  $\text{C}_2\text{H}_5\text{EtOH}$ , evapd. the solvents *in vacuo*, dissolving the cryst. residue in 100 ml.  $\text{H}_2\text{O}$ , extg. the soln. with  $\text{CHCl}_3$ , filtering the aq. layer with C, and evapg. the filtrate *in vacuo* gave 56%  $[\text{MeC}(\text{NM}_2)_2\text{CHCHO}] \cdot [\text{CMeCHO}]$  (Vb), m. 193-7° ( $\text{C}_2\text{H}_5\text{N}$ )—*picrate*, m. 100-1°. Combined  $\text{C}_2\text{H}_5$  and  $\text{CHCl}_3$  exts. evapd. and chromatographed on paper in  $\text{CH}_2\text{OBt}$ :  $\text{H}_2\text{O}$  (VI) gave a mixt. of  $\text{AcCH}_2\text{CH}_2\text{NM}_2$  (VII) (*R*<sub>F</sub> 0.21) and  $\text{MeC}(\text{NM}_2)_2\text{CHCHO}$  (VIII) (*R*<sub>F</sub> 0.05).

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Zdeněk Arnold and Jiří Zemánek

Treating 2.41 g. of the  $HCO_2Me$  salt (IX) of V in 25 ml.  $H_2O$  with 2.8 g. KOH in 20 ml.  $H_2O$  at 25° 2 hrs., filtering off the  $KClO_4$ , adding  $K_2CO_3$  to the filtrate, extg. the mixt. with 3-20-ml. portions  $C_6H_6$ , evapg. the ext., and chromatographing the residue (72.8%) in VI gave a 1:1 mixt. of VII and VIII. Dissolving 3 g. IX in 30 ml. hot  $H_2O$ , adding 1.5 g. KCl in 10 ml.  $H_2O$ , sepg. the  $KClO_4$ , after cooling, treating the filtrate at 30-40 mm. with 0.8 g. NaOH in 10 ml.  $H_2O$ , heating the mixt. at 40°/15 mm. 30 min., treating it with  $K_2CO_3$ , extg. with six 25 ml. portions  $C_6H_6$ , and evapg. the solvent gave 55.4% VIII, m. 64° ( $Et_2O$ ); *picrate*, prep'd. in dioxane, m. 140°. Treating 31.4 g.  $CHCl_3$ : $CHAc$  in 20 ml. 1:1  $C_6H_6$ - $C_2H_5$  with stirring and ice-cooling with 300 ml. 2.3N  $NH_4Cl$  in  $C_6H_6$  and 50 ml. PhMe, filtering off the sepd.  $NH_4Cl$ ,  $HCl$ , and evapg. the filtrate gave 77.5% VII, b. 111-12°. Treating 10 mg. VIII with 2 ml. 3N  $NH_4Cl$

R.B.  
2/2  
in  $C_6H_6$  16 hrs. at room temp. yielded VII. Formylation of 4.37 g.  $Me_2CCl_2(OEt)_2$  (b. 66-7°, n<sub>D</sub><sup>20</sup> 1.4123) at 50° (2 hrs.), decmpn. of the mixt. with ice, and treatment of the aq. layer in the described manner yielded  $Me_2CC(OEt)_2$ :  
 $CHCHO$ , b. 105-10°, n<sub>D</sub><sup>20</sup> 1.4705; *semicarbazone*, m. 163-6° (50%  $EtOH$ ). Paper chromatography of the cryst. higher boiling fraction [0.2 g., m. 38.5° ( $Et_2O$ ), subliming at 35-40° at 0.1 mm.] gave  $Me_2CCOCH:CHNMe_2$ . R<sub>F</sub> 0.65

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(cyclohexane- $MeOH$ ). Treating 7.82 g. X in 100 ml. liquid  $NH_3$  with 5.91 g. pinacol, adding 150 ml.  $C_6H_6$ , evapg. the  $NH_3$ , refluxing the mixt. 1 hr. on the steam-bath, treating the cooled mixt. with -16.29 g.  $Bu_4SO_4$ , refluxing the stirred mixt. 4.5 hrs., adding 31.81 g.  $Bu_4O(OEt)_2$  in 200 ml.  $H_2O$ , stirring and refluxing the mixt. 3 hrs., filtering, washing the benzene layer with 3 100-ml. portions  $H_2O$ , and evapg. the  $C_6H_6$  ext. gave 72.8% [ $Me_2(OEt)_2$ ]<sub>2</sub> (X), b. 65-7°, n<sub>D</sub><sup>20</sup> 1.4128. Treating 2.87 g. X with a reagent prep'd. from 6.84 g. II and 4.67 g. III and refluxing the mixt. 1 hr. at 50° and 3 hrs. at 70° recovered the X. Treating II and III with 7.91 g. cyclopentanone di- $Et_2O$  acetal (XI) at 35° 3 hrs. yielded 47.8% orange oil, b. 117-21°, m. 97-7.5° ( $Et_2O$ ), and  $(CH_3)_2C(CHO):CNMe_2$ . R<sub>F</sub> 0.145 (in VI). From the mother liquor  $CO.(CH_3)_2.C:CHNMe_2$  was isolated, R<sub>F</sub> 0.2. Treating a mixt. of II and III with 3.61 g. XI and heating the mixt. 3 hrs. at 35-40° yielded 69% (CH<sub>3</sub>)<sub>2</sub>C(OEt)<sub>2</sub>:CHCHO, b. 140-60°, m. 38° ( $Et_2O$ ), n<sub>D</sub><sup>20</sup> 1.5100 (supercooled); *semicarbazone*, m. 207-7.5° (60%  $EtOH$ ). M. Hudlický

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ZERNITSKIY, V., agronom-entomolog

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Obog. i brik.ugl. no.28:58-68 '62. (MIRA 17:4)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001964510003-2

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ZERNOV A

Collective farms in Yakutia expand housing construction. Sel'. stroi.  
12 no.7:12 J1 '57. (MIRA 10:8)

1. Starshiy inzhener upravleniya po stroitel'stvi v kolkhosakh pri  
Sovete Ministrov Yakutskoy ASSR.  
(Yakutia--Housing, Rural)

ZERNOV, A. A.

Schetchik dlya tochnogo umnozheniya chisel s neograni chenym kolichest vom tsifr na  
odnoznachnyye mnozhiteli. M. (1932)

SO: Mathematics int he USSR, 1917-1947  
edited b y Kurosh, A.G.  
Markushevich, A.I.  
Rashevskiy, P.K.  
Moscow-Lenigrad, 1948

ZERNOV, A.G.

RESHETOV, K.A., inzhener-kapitan; ZHUKOV, Ya.S., inzhener-mayor; GLAZ-KOV, G.P., inzhener-kapitan; ZERNOV, A.G., inzhener; SHTEIMAN, A.B., podpolkovnik, redaktor; TEREMEYeva, Ye.N., tekhnicheskij redaktor.

[The PK-30, R-20-M and R-60-M medium field telephone switchboards]  
Polevye telefonnye kommutatory srednei emkosti PK-30, R-20-M, P-60-M.  
Moskva, Voen. izd-vo Ministerstva Vooruzhennykh Sil SSSR, 1946. 142 p.  
(MIRA 8:2)

1. Russia (1923- U.S.S.R.) Armiya. Upravleniye boyevoy podgotovki voysk svyazi sukhoputnykh voysk.  
(Telephone switchboards)

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CIA-RDP86-00513R001964510003-2

ZERNOV, A.I.; KARASEVA, L.G.

Face milling lathes. Rats. i izobr.predl. v stroi. no.71:12-13  
'53. (Lathes) (MIRA 9:6)

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CIA-RDP86-00513R001964510003-2"

EXCERPTA MEDICA Sec 9 Vol 13/2 Surgery Feb 59

956. CHANGES IN THE JOINTS IN RABBITS AFTER INTRA-ARTICULAR  
INSTILLATION OF PENICILLIN (Russian text) - Zernov A. I. Milit.  
Med. Acad., Leningrad - ORTOP. TRAVM. I PROTEZ. 1956, 1 (33-34)

Illus. 4

Experiments were carried out in rabbits, to which 50,000 U. of penicillin dissolved  
in 2 ml. of a physiological solution was introduced into the knee joint. The animals  
were killed after periods of from 30 min.-20 days. A leucocytic reaction took place  
within 48 hr. after the last injection; no lasting sequelae were observed.

(S)

ZERNOV, A.I.; LISITSIN, M.S. [deceased]; POPOV, V.I., prokhodtsev, I.I.;  
RESHETOV, A.I.; RYZHKOV, S.V.; SITENKO, V.M.; CHISTOVICH, A.N.

Results in the treatment of cancer patients with semicarbazide  
and cadmium. Vop. onk. 9 no.6:114-116 '65. (MIRA 17:8)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova  
(nachal'nik - prof. P.P. Goncharov). Adres avtorov: Leningrad,  
K-9, ul. Lebedeva, 6, Voyenno-meditsinskaya ordena Lenina  
akademiya imeni Kirova.

ZERNOV, A. I.

USSR/General Problems of Pathology. Neoplasms.

U

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37359.

Author : Chistovich, AN. Zernov, A. I.

Inst :

Title : Some Problems of Pathological Anatomy of Lung  
Cancer.

Orig Pub: Vopr. onkologii, 1957, 3, No 4, 399-404.

Abstract: No abstract.

Card : 1/1

ZERNOV, A.I.

Changes in the joints of rabbits following intra-articular administration of penicillin. Ortop., travm. i protez. 17 no.1:33-34 Ja-F '56.  
(MIR 9:12)

1. Iz kafedry patologicheskoy anatomii (nach. - prof. A.N.Ghistovich)  
Voyanno-meditsinskoy ordena Lenina akademii im. S.M.Kirova.

(PENICILLIN, eff.

on joints in rabbits in intra-articular admin.)  
(JOINTS

eff. of intra-articular admin. of penicillin in rabbits)

ZERNOV, A.I.

CHISTOVICH, A.N., prof.; ZERNOV, A.I.

Problems in the pathoanatomy of lung cancer. Vop.onk. 3 no.4:  
399-404 '57. (MIRA 10:11)

1. Iz kafedry patologicheskoy anatomii (nach. - prof. A.N.Chistovich) Voyenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova  
Adres avtorov: Leningrad, ul. Lebedeva, d.37-a. Voyenno-meditsinskaya akademiya ordena Lenina im. S.M.Kirova, kafedra patologicheskoy anatomii.

(LUNG NEOPLASMS, pathology,  
(Rus))

ZERNOV, A.K.

Russian Soviet Federated Socialist Republic. Prom.koop. no.1:1-3  
Ja '57. (MIRA 10:4)

1. Predsedatel' pravleniya Rospromsoveta.  
(Cooperative societies)

ZERNOV, B.

Gumilevskiy, L.

A. M. Butlerov, and outstanding Russian chemist ("A. M. Butlerov." Reviewed by B. Zernov. Ed. L. Gumilevskiy). Zvezda No. 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

USSR / Soil Science. Physical and Chemical Properties of Soils. J-2

Abs Jour : Ref Zhur - Ekologiya, No 16, 1958, No. 72669

Author : Zernov, B.; Serditova, T.

Inst : Moscow Agricultural Academy Imeni K. A. Timiryazev

Title : Changes of the Water-Physical Properties of Turf-Podzolic  
Soil Depending on Changes and Shifts of Genetic Horizons

Orig Pub : Sb. stud. nauchno-issled. rabot. Mosk. s.-kh. akad. im.  
K. A. Timiryazeva, 1958, vyp. 8, 216-219

Abstract : No abstract given

Card 1/1

ZERNOV, B.L., inzhener.

Effective method of degumming ramie fiber. Tekst.prom 16 no.12;21-  
23 D'56.  
(Ramie) (MLRA 10:1)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001964510003-2

PRYANISHNIKOV, S.K., inzhener; ZERNOV, B.L., inzhener.

Results of testing pressure rollers with various coverings. Tekst.prem.  
16 no.1:47 Ja '56. (MLRA 9:4)  
(Spinning machinery--Testing)

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CIA-RDP86-00513R001964510003-2"

ZERNOV, B.L.

FEYMAN, I.I., dotzent; ZERNOV, B.L.; ZERNOVA, Ye.I., inzhener

Hemp processing on flax-spinning machinery. Tekst.prom.15 no.7:  
14-16 J1'55.  
(MLRA 8:10)

1. KTI (for Feyman). 2. Zaveduyushchiy TSentral'no-nauchnoy issle -  
dovatel'skoy laboratorii Glavl'na (for Zernov). 3. Kostromskiy l'no-  
kombinat imeni Lenina (for Zernova)  
(Hemp)

PRYANISHNIKOV, S.K., inzhener; ZERNOV, B.L., inzhener.

Mechanizing the process of preparing fiber for spinning. Tekst.prom.  
15 no.3:42-43 Mr '55. (MIRA 8:4)  
(Spinning machinery)

ZERNOV, B.L.

FEYMAN, I.I., dotsent; ZERNOV, B.L.; ZERNOVA, Ye.I., inzhener

Hemp processing on flax-spinning machinery. Tekst.prom.15 no.7:14-  
16 Jl'55.  
(MLRA 8:11)

1. KTI (for Feyman) 2. Naveduyushchiy TSentral'no-nauchnoy issledo-  
vatel'skoy laboratorii Glavl'na (for Zernov) 3. Kostromskiy l'no-  
kombinat imeni Lenina (for Zernova).

(Hemp)

GOKHSTEYN, A., inzh. ZERNOV, D., inzh.

Determining the permissible speeds of vessels in canals. Rech. transp.  
24 no.8:41-43 "65. (MIRA 18:9)

1. Tsentral'nyy nauchno-issledovatel'skiy institut ekonomiki i  
eksploatatsii vodnogo transporta.

*Investigation of autoelectronic emission of thin dielectric films.* D. V. Zefirin, M. I. Il'ina, and N. M. Levitt. *Bull. Acad. Sci. USSR, Class. Nat. Sci.*, 1944, 103-81.

Moder [Al]-Al<sub>2</sub>O<sub>3</sub>-Cs<sub>2</sub>O emitters (C.A. 30, 3310<sup>a</sup>) were prepared by electrolytic oxidation of an Al surface, treating the Al<sub>2</sub>O<sub>3</sub> with Cs vapors and oxidizing the Cs to Cs<sub>2</sub>O. The Al<sub>2</sub>O<sub>3</sub> films were 270 Å thick. The presence of Cs<sub>2</sub>O in the film increased the stability of the autoelectronic emission. Expts. indicate that most Al<sub>2</sub>O<sub>3</sub> films, owing to the nonuniform thickness and porosity, cannot retain the pos. charges in their surfaces because of ruptures in the films and increased recombination; Cs<sub>2</sub>O fills in the pores, smooths the surface and makes the film more uniform. The dampening of the autoelectronic current during the initial moments after breaking the primary current is comparatively rapid. After several sec. the decrease in the current is retarded considerably and, sometimes, the current is stabilized at a very low value. The rapid initial decrease in the current is attributed to intensive recombination of the surface charge, owing to the presence of a large no. of slow electrons. The stabilization of the autoelectronic current is attributed to the effect of the ions of the residual gas sustaining the charge of the dielectric material, and to the direct ionization of its surface by fast electrons. In MgO films the autoelectronic current is, in the main, analogous to that obtained from the [Al]-

Al<sub>2</sub>O<sub>3</sub>-Cs<sub>2</sub>O films. However, the collector current changed very little with comparatively large variations in the primary current, and the change in the velocity of the primary electrons had no effect on the values of the coeff. The autoelectronic current was stabilized less than 0.5 sec. after the breaking of the primary current, the stationary value of the current remaining considerably higher than with [Al]-Al<sub>2</sub>O<sub>3</sub>-Cs<sub>2</sub>O films. Irradiation of the emitter with primary electrons produced a uniform light-blue radiation on the surface of the emitter (a similar radiation was observed on [Al]-Al<sub>2</sub>O<sub>3</sub>-Cs<sub>2</sub>O films). The brightness of the radiation increased immediately after turning on the primary current and also with the increase in the velocity of primary electrons. Displacement of the primary bundle of the electrons by means of a magnetic field displaced the radiation along the surface of the emitter.

ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION



without any perceptible inertia, indicating that the radiation was caused by the excitation of the surface atoms by the primary electrons. Stationary radiating spots whose brightness was considerably greater than that of the radiation was also observed on the MgO films. The position of these spots remained unchanged after the displacement of the primary bundle along the surface of the emitter by means of a magnetic field. Their brightness increased with the increase in the autoelectronic current. These spots did not disappear after breaking the primary current. Rupture of the film resulted in the disappearance of all or of a part of the radiating spots. These spots differed both in their color of radiation and in their brightness from sparks which appeared on rupturing the film. The spots were distributed more or less at random along the surface of the emitter. They appeared also in that part of the emitter that was not irradiated directly by the primary bundle. The properties of these spots indicate that they represent the points at which the autoelectronic current appears. Eighteen references. W. R. Henn

*Value of dimensions*

671  
332.5313  
The Effect of Strong Electric Fields on the  
Secondary Electron Emission from Thin Dielectric  
Films. D. V. Zernov. (Bull. Acad. Sci. U.R.S.S.,  
*ser. fiz.*, 1941, Vol. 8, No. 6, pp. 354-359. In  
Russian.) As a result of the action of an electron  
beam on a thin film of dielectric deposited on a  
metallic base, a strong field is built up in the film  
allowing in a number of ways the characteristics of  
the counter. The effects of the field are enumerated  
and, in order to clarify the processes taking place in  
the film, a mathematical analysis is presented of the  
energy spectrum of the system metal-dielectric-  
vacuum (Fig. 1). Experiments carried out with the  
MgO and Al<sub>2</sub>O<sub>3</sub>-Cs<sub>2</sub>O emitters are described, and  
the possibility of obtaining large secondary currents,  
especially in the form of short impulses, is indicated.  
An abstract in English was noted in 2075 of 1946.